

## SEQUENCE LISTING

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TANAKA, Hideyuki  
KITADA, Chieko

<120> Novel Protein And Process For Producing Same

<130> 2543USOP

<150> PCT/JP99/04765

<151> 1999-09-02

<150> JP 10-250108

<151> 1998-09-03

<160> 19

<210> 1

<211> 119

<212> PRT

<213> Human

<400> 1

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Met Lys Val Leu Ile Ser Ser Leu Leu Leu Leu Pro Leu Met Leu
 1          5          10          15
Met Ser Met Val Ser Ser Ser Leu Asn Pro Gly Val Ala Arg Gly His
          20          25          30
Arg Asp Arg Gly Gln Ala Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln
          35          40          45
Glu Cys Glu Cys Lys Asp Trp Phe Leu Arg Ala Pro Arg Arg Lys Phe
          50          55          60
Met Thr Val Ser Gly Leu Pro Lys Lys Gln Cys Pro Cys Asp His Phe
          65          70          75          80
Lys Gly Asn Val Lys Lys Thr Arg His Gln Arg His His Arg Lys Pro
          85          90          95
Asn Lys His Ser Arg Ala Cys Gln Gln Phe Leu Lys Gln Cys Gln Leu
          100          105          110
Arg Ser Phe Ala Leu Pro Leu
          115          119

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<210> 2

<211> 119

<212> PRT

<213> Rat

<400> 2

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Met Lys Leu Leu Ala Ser Pro Phe Leu Leu Leu Leu Thr Gly Met Phe
 1          5          10          15
Thr Ala Thr Val Ser Ser Ser Pro Asn Gln Glu Val Ala Arg His His
          20          25          30
Gly Asp Gln His Gln Ala Pro Arg Arg Trp Leu Trp Glu Gly Gly Gln
          35          40          45
Glu Cys Asp Cys Lys Asp Trp Ser Leu Arg Val Ser Lys Arg Lys Thr
          50          55          60
Thr Ala Val Leu Glu Pro Pro Arg Lys Gln Cys Pro Cys Asp His Val
          65          70          75          80
Lys Gly Ser Glu Lys Lys Asn Arg Arg Gln Lys His His Arg Lys Ser
          85          90          95
Gln Arg Pro Ser Arg Thr Cys Gln Gln Phe Leu Lys Arg Cys Gln Leu
          100          105          110
Ala Ser Phe Ala Leu Pro Leu
          115          119

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<210> 3

<211> 119

<212> PRT

<213> Murine

<400> 3

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Met Lys Leu Leu Ala Ser Pro Phe Leu Leu Leu Leu Pro Val Met Leu
 1          5          10          15
Met Ser Met Val Phe Ser Ser Pro Asn Pro Gly Val Ala Arg Ser His
          20          25          30

```

Gly Asp Gln His Leu Ala Pro Arg Arg Trp Leu Leu Glu Gly Gly Gln  
 35 40 45  
 Glu Cys Glu Cys Lys Asp Trp Phe Leu Gln Ala Pro Lys Arg Lys Ala  
 50 55 60  
 Thr Ala Val Leu Gly Pro Pro Arg Lys Gln Cys Pro Cys Asp His Val  
 65 70 75 80  
 Lys Gly Arg Glu Lys Lys Asn Arg His Gln Lys His His Arg Lys Ser  
 85 90 95  
 Gln Arg Pro Ser Arg Ala Cys Gln Gln Phe Leu Lys Arg Cys His Leu  
 100 105 110  
 Ala Ser Phe Ala Leu Pro Leu  
 115 119

&lt;210&gt; 4

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 4

ATGAAAGTTC TAATCTCTTC CCTCCTCCTG TTGCTGCCAC TAATGCTGAT GTCCATGGTC 60  
 TCTAGCAGCC TGAATCCAGG GGTCGCCAGA GGCCACAGGG ACCGAGGCCA GGCTTCTAGG 120  
 AGATGGCTCC AGGAAGGCGG CCAAGAATGT GAGTGCAAAG ATTGGTTCCT GAGAGCCCCG 180  
 AGAAGAAAAT TCATGACAGT GTCTGGGCTG CCAAAGAAGC AGTGCCCTG TGATCATTTTC 240  
 AAGGGCAATG TGAAGAAAAC AAGACACCAA AGGCACCACA GAAAGCCAAA CAAGCATTTCC 300  
 AGAGCCTGCC AGCAATTTCT CAAACAATGT CAGCTAAGAA GCTTTGCTCT GCCTTTG 357

&lt;210&gt; 5

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 5

ATGAAGCTTC TAGCCTCTCC CTTCTTCTG TTGCTGACAG GGATGTTTAC GGCCACGGTC 60  
 TCCAGCAGCC CGAATCAAGA GGTCGCCAGA CACCATGGGG ATCAACACCA GGCTCCTAGG 120  
 AGGTGGCTCT GGAAGGTGG CCAAGAGTGT GACTGCAAAG ATTGGTCCCT GCGAGTCTCA 180  
 AAGAGAAAAA CCACAGCAGT GCTGGAGCCA CCAAGGAAGC AGTGTCCTG TGATCATGTC 240  
 AAGGGCAGTG AGAAAAAGAA CAGACGCCAA AAGCACCACA GGAAGTCACA AAGGCCCTCC 300  
 AGAACCTGCC AGCAATTTCT CAACGATGT CAACTAGCAA GCTTCGCCCT GCCCTTA 357

&lt;210&gt; 6

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Murine

&lt;400&gt; 6

ATGAAGCTTC TAGCCTCTCC CTTCTTCTG TTGCTTCCAG TGATGCTCAT GTCCATGGTC 60  
 TTCAGCAGCC CGAATCCAGG GGTCGCCAGA AGCCACGGGG ACCAACACCT GGCTCCTAGG 120  
 AGGTGGCTCT TGGAAGGTGG CCAAGAATGT GAATGCAAAG ATTGGTTCCT GCAAGCCCCA 180  
 AAGAGAAAAG CCACAGCAGT GCTGGGGCCA CCAAGGAAGCA GTGTCCCTG TGATCACGTC 240  
 AAGGGCAGGG AGAAAAAAA CAGACACCAA AAGCACCACA GGAAGTCGCA AAGACCTCC 300  
 AGAGCTGCC AGCAATTTCT CAAACGATGT CACCTGGCAA GCTTTGCGCT GCCCTTA 357

&lt;210&gt; 7

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; human fragment (23-119)

&lt;400&gt; 7

Ser Leu Asn Pro Gly Val Ala Arg Gly His Arg Asp Arg Gly Gln Ala  
 1 5 10 15  
 Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln Glu Cys Glu Cys Lys Asp  
 20 25 30  
 Trp Phe Leu Arg Ala Pro Arg Arg Lys Phe Met Thr Val Ser Gly Leu  
 35 40 45  
 Pro Lys Lys Gln Cys Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys  
 50 55 60  
 Thr Arg His Gln Arg His His Arg Lys Pro Asn Lys His Ser Arg Ala  
 65 70 75 80  
 Cys Gln Gln Phe Leu Lys Gln Cys Gln Leu Arg Ser Phe Ala Leu Pro

Leu 85 90 95  
97

<210> 8  
<211> 97  
<212> PRT  
<213> Artificial  
<220>  
<223> rat fragment (23-119)  
<400> 8

Ser	Pro	Asn	Gln	Glu	Val	Ala	Arg	His	His	Gly	Asp	Gln	His	Gln	Ala
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Pro	Arg	Arg	Trp	Leu	Trp	Glu	Gly	Gly	Gln	Glu	Cys	Asp	Cys	Lys	Asp
			20				25						30		
Trp	Ser	Leu	Arg	Val	Ser	Lys	Arg	Lys	Thr	Thr	Ala	Val	Leu	Glu	Pro
		35					40					45			
Pro	Arg	Lys	Gln	Cys	Pro	Cys	Asp	His	Val	Lys	Gly	Ser	Glu	Lys	Lys
		50				55					60				
Asn	Arg	Arg	Gln	Lys	His	His	Arg	Lys	Ser	Gln	Arg	Pro	Ser	Arg	Thr
		65			70					75				80	
Cys	Gln	Gln	Phe	Leu	Lys	Arg	Cys	Gln	Leu	Ala	Ser	Phe	Ala	Leu	Pro
				85					90					95	

Leu 97

<210> 9  
<211> 97  
<212> PRT  
<213> Artificial  
<220>  
<223> murine fragment (23-119)  
<400> 9

Ser	Pro	Asn	Pro	Gly	Val	Ala	Arg	Ser	His	Gly	Asp	Gln	His	Leu	Ala
1				5					10					15	
Pro	Arg	Arg	Trp	Leu	Leu	Glu	Gly	Gly	Gln	Glu	Cys	Glu	Cys	Lys	Asp
			20				25						30		
Trp	Phe	Leu	Gln	Ala	Pro	Lys	Arg	Lys	Ala	Thr	Ala	Val	Leu	Gly	Pro
		35					40					45			
Pro	Arg	Lys	Gln	Cys	Pro	Cys	Asp	His	Val	Lys	Gly	Arg	Glu	Lys	Lys
		50				55					60				
Asn	Arg	His	Gln	Lys	His	His	Arg	Lys	Ser	Gln	Arg	Pro	Ser	Arg	Ala
		65			70					75				80	
Cys	Gln	Gln	Phe	Leu	Lys	Arg	Cys	His	Leu	Ala	Ser	Phe	Ala	Leu	Pro
				85					90					95	

Leu 97

<210> 10  
<211> 291  
<212> DNA  
<213> Human  
<400> 10

AGCCTGAATC	CAGGGGTTCG	CAGAGGCCAC	AGGGACCGAG	GCCAGGCTTC	TAGGAGATGG	60
CTCCAGGAAG	GCGGCCAAGA	ATGTGAGTGC	AAAGATTGGT	TCCTGAGAGC	CCCGAGAAGA	120
AAATTTCATGA	CAGTGTCTGG	GCTGCCAAAG	AAGCAGTGCC	CCTGTGATCA	TTTCAAGGGC	180
AATGTGAAGA	AAACAAGACA	CCAAAGGCAC	CACAGAAAGC	CAAACAAGCA	TTCCAGAGCC	240
TGCCAGCAAT	TTCTCAAACA	ATGTCAGCTA	AGAAGCTTTG	CTCTGCCTTT	G	291

<210> 11  
<211> 291  
<212> DNA  
<213> Rat  
<400> 11

AGCCCCGAATC	AAGAGGTTCG	CAGACACCAT	GGGGATCAAC	ACCAGGCTCC	TAGGAGGTGG	60
CTCTGGGAAG	GTGGCCAAGA	GTGTGACTGC	AAAGATTGGT	CCCTGCGAGT	CTCAAAGAGA	120

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AAAACCACAG CAGTGCTGGA GCCACCAAGG AAGCAGTGTC CCTGTGATCA TGTCAAGGGC 180
AGTGAGAAAA AGAACAGACG CCAAAAGCAC CACAGGAAGT CACAAAGGCC CTCCAGAACC 240
TGCCAGCAAT TTCTCAAGCG ATGTCAACTA GCAAGCTTCG CCCTGCCCTT A 291

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<210> 12
<211> 291
<212> DNA
<213> Murine
<400> 12

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AGCCCGAACC CAGGGGTCGC CAGAAGCCAC GGGGACCAAC ACCTGGCTCC TAGGAGGTGG 60
CTCTTGGAAG GTGGCCAAGA ATGTGAATGC AAAGATTGGT TCCTGCAAGC CCCAAAGAGA 120
AAAGCCACAG CAGTGCTGGG GCCACCAAGG AAGCAGTGTC CCTGTGATCA CGTCAAGGGC 180
AGGGAGAAAA AAAACAGACA CCAAAAGCAC CACAGGAAGT CGCAAAGACC CTCCAGAGCC 240
TGCCAGCAAT TTCTCAAACG ATGTCACCTG GCAAGCTTTG CGCTGCCCTT A 291

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<210> 13
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 13
GCCTTTAAGA ACCAACAGAC AG

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22

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<210> 14
<211> 40
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 14
GACGAATTCC CACCATGAAA GTTCTAATCT CTTCCCTCCT

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40

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<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 15
GACTCGAGCG GCCGCTACAA AGGCAGAGCA AAGCTTCTTA

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40

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<210> 16
<211> 47
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 16
TGCACCGTCG ACCACCATGA AAGTTCTAAT CTCTTCCCTC CTCCTGT

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47

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<210> 17
<211> 51
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 17
CGCTCAGTCG ACCTACAAAG GCAGAGCAAA GCTTCTTAGC TGACATTGTT T

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51

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<210> 18
<211> 66
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 18

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